FLASH MEMORY CELL AND METHOD OF MANUFACTURING THE SAME, AND PROGRAMMING/ERASING/READING METHOD IN THE FLASH MEMORY CELL

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BACKGROUND OF THE INVENTION
This application is a division of 10/287, 781 filed 11/05/02
and now patent No. 6, 703, 275
Field of the Invention:

The invention relates generally to a flash memory cell and method of manufacturing the same, and programming/erasing/reading method in the flash memory cell. More particularly, the invention relates to a flash memory cell having a silicon-oxide-nitride-oxide-silicon (SONOS) structure in which silicon, an oxide film, a nitride film, an oxide film and silicon are sequentially stacked, and method of manufacturing the same, and programming/erasing/reading method in the flash memory cell.

Description of the Prior Art:

A flash memory cell is a non-volatile memory device that is electrically programmed and erased. A basic structure and programming/erasing operation of the flash memory cell will be described below.

Fig. 1 is a cross-sectional view of a conventional flash memory cell for describing the structure and programming/erasing operation of the flash